

PLANTAE MESOAMERICANAEE NOVAE, VII*

by Luis D. Gómez P. & Jorge Gómez-L.
Museo Nacional, San José, Costa Rica

Xanthosoma croatana sp. nov., rhizoma breve tuberosum, lactescens, latex albidus siccando aurantiacus. Foliorum petioli cassiusculi pallide virides, pilis densissime obtecti, vagina membranosa instructi, 30-50 cm longi, basi 3 cm crassi apicem versus attenuati; lamina adulta 30-40 cm longa, 22-30 cm e parte media lata, opaca, pallide virides, utrimque velutina, pilis 1-2-cellulatis hyalinis, cordato-ovata, lobo antico acuto vel obtusisculo, lobis posticis obtusiusculo-subtruncatis vel pauciter rotundatis; nervis lateralibus primariis lobi antici utrinque 5, pilosis, nervis collectivis 2 marginibus distantibus (interno 2-3 mm, externo 5-6 mm). Pedunculus 1 cm crassus 30-35(40) cm longus, pilosus. Spathae tubus globosus, ± 5 cm, utrimque virens, apicem constrictus, constrictione (fauce) purpurea, intus pauc'e glanduloso-pilosus, glandulae sessiles, in maturitas fortissime clausus, nitentes; lamina spathae in maturitatae caduca, elliptico-lanceolata, utrinque alba, pilosa, nervis violascentibus ex faucom effussis deinde incoloribus, 12-14 cm longa, 4.5-6 cm lata. Spadicis stipes 3-4 mm longus, inflorescentia feminea 3.5-6 cm longa, cylindrico-inflata, vix 100-florata, albida; inflorescentia mascula 6-7 cm longa, e medio 1 cm crassa, viride-violacea, in maturitate putrescente et caduca. Grana sulphurea, laeves, 2-3-4-adas coalescentes, vix 70 μ m. Ovaria ovoidea annulo stylino eburneo, in sicco brunneo atque stigmate rotundo instructa. Semina subconica, longitudinaliter sulcata, 0.6 mm longa, alba. Infructescientia globosa, albo-virens, laminae spathae scariosae coronata.

Obviously a member of the *x. pilosum-mexicanum* group. It differs from both those species in the densely velutinous surfaces of the leaf, the length of the peduncles and the coloration of the spathe. The new species is named in honor of Dr. Thomas Croat of Missouri Botanical Gardens for his many contributions to the knowledge of Araceae.

HOLOTYPE: Rio Cabuyo, apx. 40 km NW of Canas, Guanacaste. Gordon Frankie & L. D. Gomez 18489 (CR). Isoty whole MO, F, K. PARATYPE: Pozo Azul de Abangares, Guanacaste, C. E. Valerio s.n. 29-8-81, USJ 23464 & 23465.

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Cyperus costaricensis Gomez-L., sp. nov., culmus 60-160 cm altus; lamina foliorum 1-2 cm lata, longitudinaliter profunde sulcata; bracteae ca. 12, folia similes; inflorescentia supradecomposita; glumae cellulare-reticulatae, carina prasina, marginibus rubiginosis, facile distinguitur. Sectio Diffusi Kunth.

Planta perennes, rhizomate breve, recto, crasso; radicibus fibrosis, fuscis; culmus erectus, rigidus, trigonus, 60-160 cm altus, subanthes-
la ca. 7 mm crassus, plerumque laevigatus, minute marginibus scabrus, plurifoliatus; folia culmum superantia, lamina linearia, 1-2 cm la-
tae, herbaceae, tricostatae e medio longitudinaliter profunde sulca-
tae, marginibus minute scabra, etiam nervo medio dorsalis, apicem
acuminatae; vaginae purpureo-suffusae; bracteae ca. 12 folia similes,
inaequalis, aliquod inflorescentiam superantes; bracteolae evaginantes,
lineare-lanceolatae, margine scabrae; inflorescentia supradecomposi-
ta, diffusa, ampla multiradiata, 11-27 cm longa, 9-35 cm lata; radii
patentes, valde inaequalis, rigidis, subtrigonis, laevis, usque 1.5
mm latis; prophylis exsurgentis, multinervosis, purpureo suffusis,
orae oblique secta postice scabra longe producta; radioli secundarii
et tertiarii divergentes; spiculae numerosae, 3-6-digitatae, radian-
tes, oblongae, 4-6 mm longae, 1.5 mm latae, turgidae, 10-12-flarae;
rachilla recta, exalata; glumae ovatae, 1.1-1.3 mm longae, cellulare
-reticulatae, carina prasina, mucro breve, recto vel excurvo corona-
ta, gluma laterali sanguinea; stamens 3; stylus profunde trifidus;
achaenium 1.2 mm longum, 0.6 mm latum, ovatum, triquetrum, breviter
apiculatum, castaneum, nitens.

A member of section Diffusi Kunth it is distinguished from its con-
genera by the width of leaves and bracts, the glumes with their green
carinae and reddish sides and the number of stamens. HOLOTYPE: Fal-
das de la Fila Volcan Muerto, San Ramon, Alajuela 1000-1100 m, Gomez
Laurito 8322 (CR). ISOTYPES: F. PARATYPI : 6658 & 6659 J. Gomez-L.,
CR, J.G.-L. 8320 MO. Additional material: same locality, Gomez-L.,
8248, CR.

Pterichis leo sp. nov., habitu *P. galeata* Lindl. et *P. weberbauri-*
ana Kränzl. similis, sine dubio his speciebus proxima, differt la-
bello rhomboideo, longitudine latitudine subaequantia, petaliis non
unguiculatis.

Herba paludosa, parva, totta piloso-glandulosa viscidula; caulis bre-
vissimus radices carnosissimas emittens, simplices. Folia una (raro
2-3) cito decidua, 7-8 cm longa, 15-17 mm lata, apicem acuta, viride,
nervo medio purpureo. Inflorescentia adscendentia usque ad 30 cm lon-
ga, 10-15-flora, piloso-glandulosa; pedunculus ± 20 cm longus, brac-
teae distantes, arcte vaginantes, acutae 35-40 mm longae, 12-14 mm
latae. Flores adscendentia, non resupinatas, pedicellus cum ovario
15 mm longus. Sepalum intermedium lanceolatum, acutum, purpurascens,
9-9.5 mm longum, 3.8-4 mm latum, extus piloso-glanduloso, intus gla-

brus, marginibus pellucidis; sepala lateralia lanceolata, acuta, 6-7 mm longa, 4 mm lata, recurvata. Petala libera e basi oblique curvatum lanceolata, apicem obtuso-rotundata, 8-9 mm longa, 3-3.2 mm lata, virides sed purpureo suffusa; tepala omnia trinervia, nervis xerampelineis. Labellum arcte incurvatum et longitudinaliter plicatum, apicem breviter lobulatum, 7 mm longum, e parte media vix 10 mm latum, basim recto vel pauciter excavatum, apicem obtusum, carnosum, glandulis papillatis marginibus obtectus, glandulae flavae. Columna teres, truncata, brevissima, 2 mm longa; pollinia fusiformia, 1.5 mm longa, stipitibus viscidio communi punctiformi atropurpureum conniventibus; rostellum leviter productum, obtusum. Capsulae anguste ellipsoideae, 12-15 mm longae, vix 4 mm diametro, 6-costatae.

HOLOTYPE: In sphagnetum, 3 de Junio, Prov. de San Jose, 2800-3000 m, J. Gomez-L. 1243, CR. PARATYPE: In bog, Cerro de la Muerte, Cartago, 3100 m, L. Glicenstein in L.D.Gomez 18574, CR. The new species is named in honor of Leon Glicenstein, ardent student of our native orchids, for his many years of devoted and careful fieldwork.

The Costa Rican representatives of this mainly South American genus can be separated as follows:

- 1- Labellum chartreuse or very pale sulphur yellow, rounded cordate at base, apiculate-subulate at apex, with 2-3 veins on each side, these 1-3-branched. Lateral petals usually adhering to the dorsal sepal..... *P. costaricensis* O. Ames & Schweinf.
- 1' Labellum xerampelinum or greenish-marron, with marginal yellow papillae, straight or excavate at base, obtuse and flat at apex, with 4-6 veins/ side, these 1-forked. Tepals all free... *P. leo*

NEW RECORDS

Cyperus digitatus Roxburg, J.Gomez-L 6854; 6855; 6856, Cabezas, P. of Puntarenas; J. Gomez-L. 7085; 7086, La Cruz, Guanacaste.

Cladium jamaicense Crantz, Holst & Soto s.n. in Gomez-L. 8328,8329, Cahuita, Prov. Limon.

Mariscus pedunculatus (R. Br.)T. Koyama [*Remirea maritima* Aublet] C. E. Valerio 52, Tortuguero, Prov. Limon.

Hypolytrum longifolium (L.C.Rich.)Nees ssp. *nicaraguensis* (Liebm.) T. Koyama, Gomez-L. 790], 7902, Tortuguero, Prov. Limon.

Polycarpon tetraphyllum (L.)L., Tierra Blanca de Cartago, Gomez -L. 3629, 8630 [fide Wm. Burger, *in litt.*].

Agalinis hispidula (Martius) D'Arcy, Gomez-L. 7034,7035, La Cruz, Provincia Guanacaste.